

Attorney Docket No. P63943US0

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of: MIURA, et al.

Via Facsimile

703-872-9310

Serial No.: 09/417,135

Group Art Unit: 1745

Filed: October 13, 1999

Examiner: MERCADO, Julian A.

For: SOLID POLYMER ELECTROLYTE AND USE THEREOF

## AMENDMENT

Commissioner of Patents  
Washington, D.C. 20231

Sir:

The instant paper, transmitted by facsimile, responds to the Office Action mailed July 27, 2002.

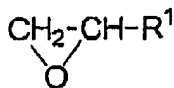
IN THE CLAIMS:

Cancel claims 36-50, without prejudice or disclaimer, and add claims as follows:

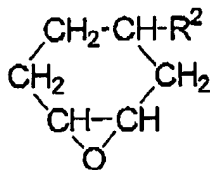
51. A solid polymer electrolyte comprising: (I) a crosslinked material of a polyether copolymer; (II) an electrolyte salt compound; and (III) a plasticizer which may be added if necessary and is selected from the group consisting of an aprotic organic solvent, a derivative or a metal salt of a linear or branched polyalkylene glycol, and a metal salt of said derivative,

wherein the polyether copolymer having a weight-average molecular weight of  $10^5$  to  $10^7$ , comprises: wherein the polyether copolymer having a polymer backbone including repeating units and a weight-average molecular weight of  $10^5$  to  $10^7$ , comprises:

- A) 3 to 30 % by mol of a repeating unit derived from propylene oxide in the polymer backbone;  
B) 96 to 69 % by mol of a repeating unit derived from ethylene oxide in the polymer backbone; and  
C) 0.01 to 15 % by mol of a repeating unit derived from a crosslinkably reactive monomer represented by formula (III-1) and/or formula (III-2) oxide in the polymer backbone:



(III-1)



(III-2)

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